

**LUMINARIA LED INTERIOR****BOMBILLA LED MARCA CIGLA REF. BOL10197AM****7W (85277) V (50-60) Hz**

Light Output Ratio:	100.0%	
Luminaire Power:	6.903 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.65	fine grid method.

**H( $\beta$ ) Range:-90 - 90DEG**  
**H( $\beta$ ) Interval: 1.0DEG**  
**Test Speed: HIGH**  
**Temperature:24.8DEG**  
**Operators:CB**  
**Test Date:2020-09-23**

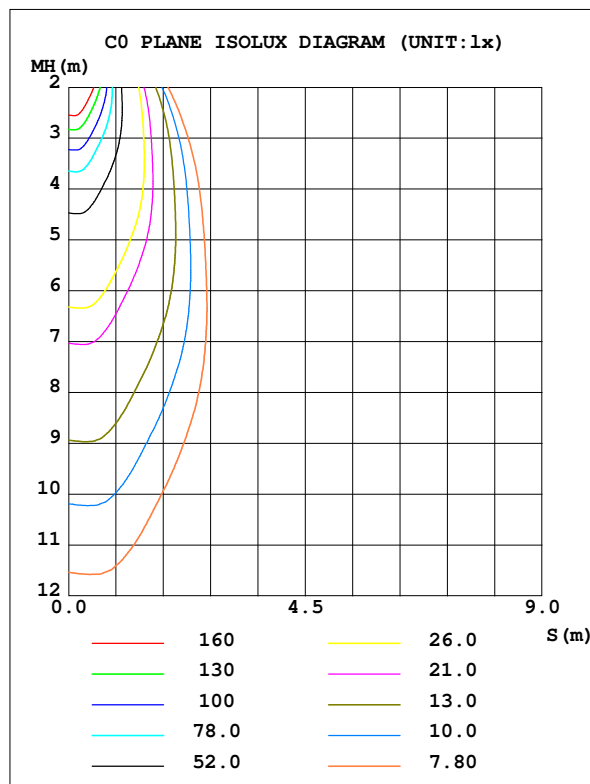
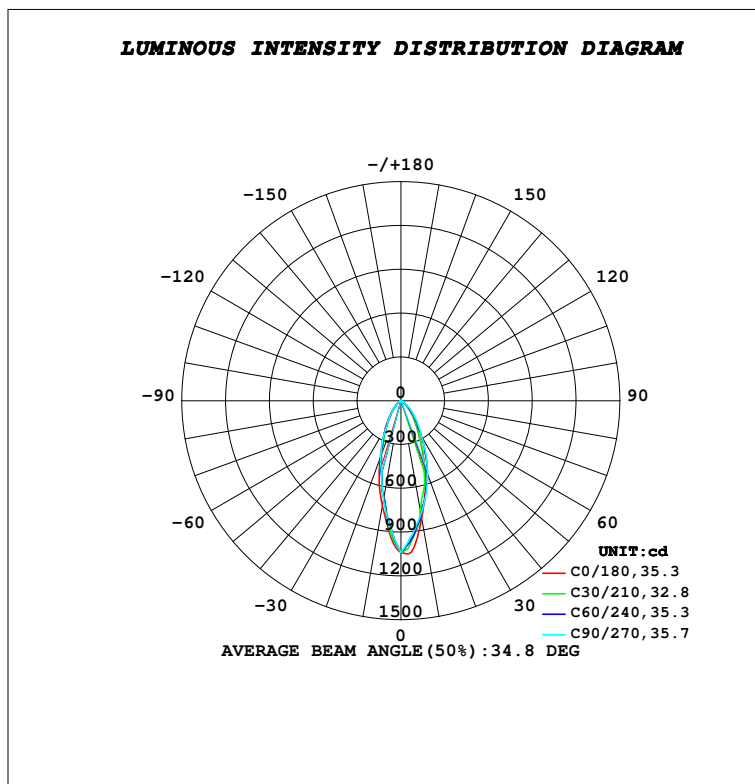
**V(B) Range:-90 - 90DEG**  
**V(B) Interval: 2.0DEG**  
**Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.00.417**  
**Humidity:58%**  
**Test Distance:13.200m [K=1.0000]**  
**Remarks: LUMINARIA LED**

**7 W (85-277) V (50-60) Hz QTEST 18253-16**

### LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.08V I:0.0942A P:6.9027W PF:0.6103 Freq:60.00Hz Lamp Flux:575.952x1 lm		
NAME: LUMINARIA LED 7W	TYPE:INTERIOR	WEIGHT:
SPEC.:BOL1019 7W 3000K WH 18253	DIM.:	SERIAL No.:
MFR.: DRITE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 83.44 lm/W
MODEL	LED CIGLA BOL1019	I <sub>max</sub> (cd)	1048	S/MH (C0/180)	0.60	
NOMINAL POWER (W)	7	LOR (%)	100.0	S/MH (C90/270)	0.48	
RATED VOLTAGE (V)	85-277	TOTAL FLUX (lm)	575.95	η UP, DN (C0-180)	0.0, 55.3	
NOMINAL FLUX (lm)	575.952	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 44.7	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50	
TEST VOLTAGE (V)	120	η down (%)	100.0	CIBSE SHR MAX	0.65	



H(β) Range: -90 - 90DEG  
H(β) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature: 24.8DEG  
Operators: CB  
Test Date: 2020-09-23

V(B) Range: -90 - 90DEG  
V(B) Interval: 2.0DEG  
Test System: EVERFINE GO-2000H\_V1 SYSTEM V2.00.417  
Humidity: 58%  
Test Distance: 13.200m [K=1.0000]  
Remarks: LUMINARIA LED

7 W (85-277) V (50-60) Hz  
QTEST 18253-16

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\Phi$ lum, lamp
10	817.4	778.2	791.4	726.2	731.7	673.7	689.6	704.1	0- 10	81.06	81.06	14.1, 14.1
20	477.8	498.8	535.4	479.1	415.1	385.6	405.0	369.4	10- 20	160.0	241.1	41.9, 41.9
30	230.8	254.8	278.0	269.6	211.2	202.5	187.3	196.6	20- 30	148.0	389.1	67.6, 67.6
40	110.1	126.8	149.1	140.3	97.71	87.05	88.86	94.60	30- 40	102.6	491.7	85.4, 85.4
50	42.11	53.42	65.51	53.73	36.57	31.13	36.70	34.30	40- 50	57.66	549.4	95.4, 95.4
60	6.431	12.54	17.02	14.05	5.750	8.777	7.903	8.973	50- 60	18.92	568.3	98.7, 98.7
70	2.639	3.022	2.530	2.960	2.204	2.874	2.646	3.048	60- 70	4.928	573.2	99.5, 99.5
80	1.463	1.356	1.133	1.337	1.284	1.498	1.326	1.514	70- 80	1.992	575.2	99.9, 99.9
90	0	0	0	0	0	0	0	0	80- 90	0.7423	576.0	100, 100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

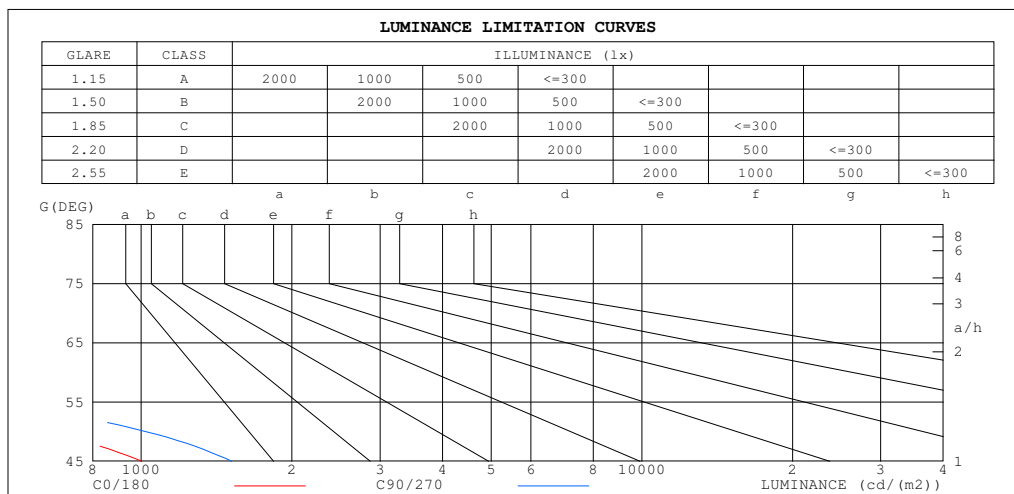
**H( $\beta$ ) Range:-90 - 90DEG**  
**H( $\beta$ ) Interval: 1.0DEG**  
**Test Speed: HIGH**  
**Temperature:24.8DEG**  
**Operators:CB**  
**Test Date:2020-09-23**

**V(B) Range:-90 - 90DEG**  
**V(B) Interval: 2.0DEG**  
**Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.00.417**  
**Humidity:58%**  
**Test Distance:13.200m [K=1.0000]**  
**Remarks: LUMINARIA LED**

**7 W (85-277) V (50-60) Hz**  
**QTEST 18253-16**

### LUMINANCE LIMITATION CURVES

Test:U:120.08V I:0.0942A P:6.9027W PF:0.6103 Freq:60.00Hz Lamp Flux:575.952x1 lm		
NAME: LUMINARIA LED 7W	TYPE:INTERIOR	WEIGHT:
SPEC.: BOL1019 7W 3000K WH 18253	DIM.:	SERIAL No.:
MFR.: DRITE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	89	65
80	84	65
75	70	67
70	77	74
65	102	231
60	129	340
55	251	481
50	655	1019
45	1002	1517

**H(β) Range:-90 - 90DEG**  
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**Test Speed: HIGH**  
**Temperature:24.8DEG**  
**Operators:CB**  
**Test Date:2020-09-23**

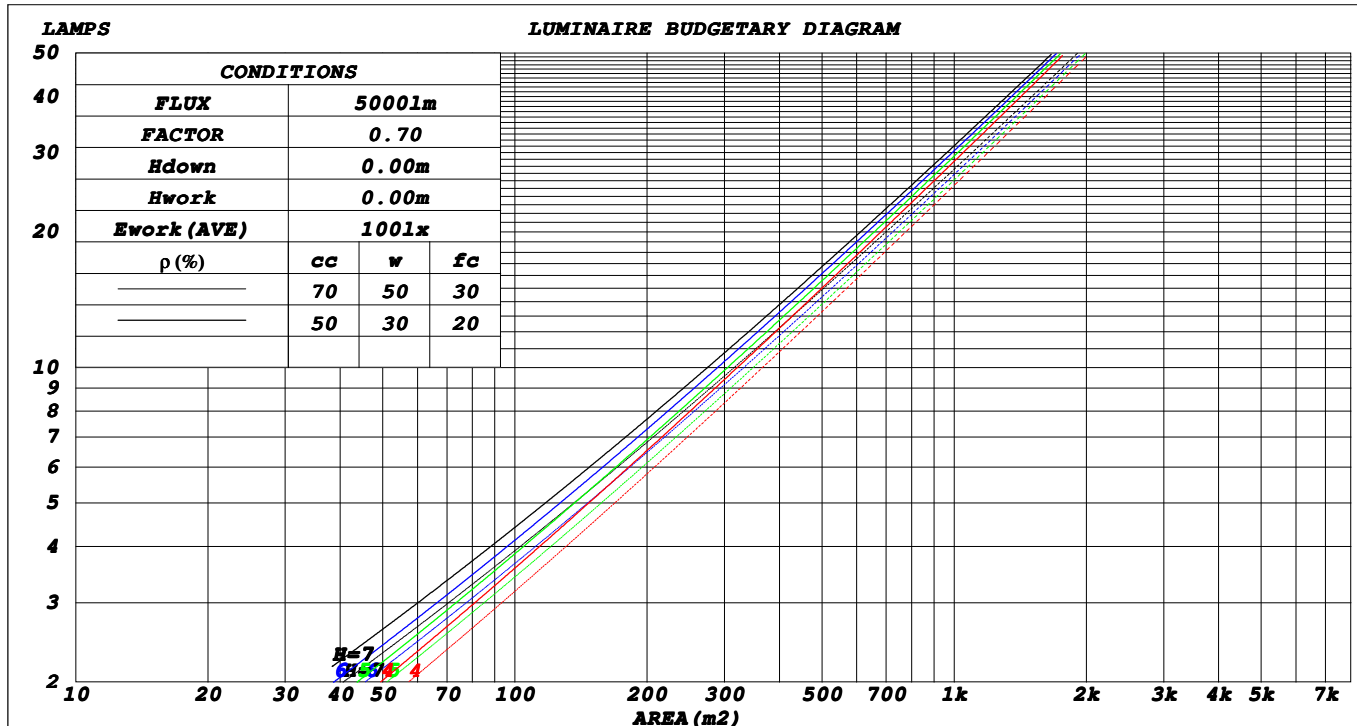
**V(B) Range:-90 - 90DEG**  
**V(B) Interval: 2.0DEG**  
**Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.00.417**  
**Humidity:58%**  
**Test Distance:13.200m [K=1.0000]**  
**Remarks: LUMINARIA LED**

**7 W (85-277) V (50-60) Hz**  
**QTEST 18253-16**

### CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.08V I:0.0942A P:6.9027W PF:0.6103 Freq:60.00Hz Lamp Flux:575.952x1 lm		
NAME: LUMINARIA LED 7W	TYPE: INTERIOR	WEIGHT:
SPEC.: BOL1019 7W 3000K WH 18253	DIM.:	SERIAL No.:
MFR.: DRITE	SUR.:	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρw	20%			20%			20%			20%			20%			0
ρfc	20%			20%			20%			20%			20%			0
<b>RCR</b>	<b>RCR:Room Cavity Ratio</b>						<b>Coefficients of Utilization (CU)</b>									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.10	1.08	1.06	1.08	1.06	1.04	1.04	1.02	1.01	1.01	.99	.98	.97	.96	.95	.93
2.0	1.03	.98	.95	1.01	.97	.94	.98	.94	.92	.95	.92	.90	.92	.90	.88	.86
3.0	.95	.90	.86	.94	.89	.85	.91	.87	.84	.89	.86	.83	.87	.84	.82	.80
4.0	.89	.83	.79	.88	.83	.79	.86	.81	.78	.84	.80	.77	.82	.79	.76	.74
5.0	.83	.77	.73	.82	.77	.73	.81	.76	.72	.79	.75	.71	.77	.74	.71	.69
6.0	.78	.72	.68	.77	.72	.68	.76	.71	.67	.74	.70	.67	.73	.69	.66	.65
7.0	.74	.67	.63	.73	.67	.63	.72	.66	.63	.70	.66	.62	.69	.65	.62	.61
8.0	.69	.63	.59	.69	.63	.59	.68	.63	.59	.67	.62	.59	.66	.62	.58	.57
9.0	.66	.60	.56	.65	.60	.56	.64	.59	.55	.63	.59	.55	.63	.58	.55	.54
10.0	.62	.57	.53	.62	.56	.53	.61	.56	.52	.60	.56	.52	.60	.55	.52	.51



H(β) Range:-90 - 90DEG  
H(β) Interval: 1.0DEG  
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Test Date:2020-09-23

V(B) Range:-90 - 90DEG  
V(B) Interval: 2.0DEG  
Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.00.417  
Humidity:58%  
Test Distance:13.200m [K=1.0000]  
Remarks: LUMINARIA LED

7 W (85-277) V (50-60) Hz  
QTEST 18253-16

## WEC AND CCEC

Test:U:120.08V I:0.0942A P:6.9027W PF:0.6103 Freq:60.00Hz Lamp Flux:575.952x1 lm		
NAME: LUMINARIA LED 7W	TYPE:INTERIOR	WEIGHT:
SPEC.: BOLL1019 7W 3000K WH 18253	DIM.:	SERIAL No.:
MFR.: DRITE	SUR.:	Shielding Angle:

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
<b>RCR</b>	<b>RCR:Room Cavity Ratio</b>						<b>Wall Exitance Coefficients(WEC)</b>									
0.0																
1.0	.183	.104	.033	.177	.101	.032	.164	.094	.030	.153	.088	.028	.142	.082	.027	
2.0	.176	.096	.030	.170	.094	.029	.160	.089	.028	.150	.084	.026	.141	.080	.025	
3.0	.167	.089	.027	.163	.087	.026	.154	.083	.025	.145	.079	.024	.137	.076	.024	
4.0	.159	.083	.024	.155	.081	.024	.147	.078	.023	.140	.075	.023	.133	.072	.022	
5.0	.151	.077	.022	.148	.076	.022	.141	.073	.022	.134	.071	.021	.128	.069	.021	
6.0	.144	.072	.021	.141	.071	.020	.135	.069	.020	.129	.067	.020	.124	.065	.019	
7.0	.137	.068	.019	.134	.067	.019	.129	.065	.019	.124	.063	.018	.119	.062	.018	
8.0	.131	.064	.018	.128	.063	.018	.123	.062	.018	.119	.060	.017	.115	.059	.017	
9.0	.125	.060	.017	.123	.060	.017	.118	.058	.017	.114	.057	.016	.110	.056	.016	
10.0	.119	.057	.016	.117	.057	.016	.113	.056	.016	.110	.055	.016	.106	.054	.015	

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
<b>RCR</b>	<b>RCR:Room Cavity Ratio</b>						<b>Ceiling Cavity Exitance Coefficients(CCEC)</b>									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.172	.157	.144	.147	.135	.124	.100	.093	.086	.058	.054	.050	.019	.017	.016	
2.0	.157	.132	.112	.134	.114	.097	.092	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.145	.114	.089	.124	.098	.077	.085	.068	.054	.049	.040	.032	.016	.013	.010	
4.0	.135	.099	.072	.116	.086	.062	.079	.060	.044	.046	.035	.026	.015	.011	.009	
5.0	.126	.087	.059	.108	.076	.051	.075	.053	.036	.043	.031	.021	.014	.010	.007	
6.0	.119	.078	.049	.102	.068	.043	.070	.047	.030	.041	.028	.018	.013	.009	.006	
7.0	.112	.071	.042	.096	.061	.036	.067	.043	.026	.039	.025	.015	.013	.008	.005	
8.0	.106	.064	.036	.091	.056	.031	.063	.039	.022	.037	.023	.013	.012	.008	.004	
9.0	.101	.059	.031	.087	.051	.027	.060	.036	.019	.035	.021	.011	.011	.007	.004	
10.0	.096	.055	.027	.083	.048	.024	.058	.034	.017	.034	.020	.010	.011	.007	.003	

**H( $\beta$ ) Range:-90 - 90DEG**  
**H( $\beta$ ) Interval: 1.0DEG**  
**Test Speed: HIGH**  
**Temperature:24.8DEG**  
**Operators:CB**  
**Test Date:2020-09-23**

**V(B) Range:-90 - 90DEG**  
**V(B) Interval: 2.0DEG**  
**Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.00.417**  
**Humidity:58%**  
**Test Distance:13.200m [K=1.0000]**  
**Remarks: LUMINARIA LED**

**7 W (85-277) V (50-60) Hz**  
**QTEST 18253-16**

UGR(Unified Glare Rating) Table

Test:U:120.08V I:0.0942A P:6.9027W PF:0.6103 Freq:60.00Hz Lamp Flux:575.952x1 lm										
NAME: LUMINARIA LED 7W					TYPE:INTERIOR			WEIGHT:		
SPEC.: BOL1019 7W 3000K WH 18253					DIM.:			SERIAL No.:		
MFR.: DRITE					SUR.:			Shielding Angle:		
<b>ceiling/cavity</b>	<b>0.7</b>	<b>0.7</b>	<b>0.5</b>	<b>0.5</b>	<b>0.3</b>	<b>0.7</b>	<b>0.7</b>	<b>0.5</b>	<b>0.5</b>	<b>0.3</b>
<b>walls</b>	<b>0.5</b>	<b>0.3</b>	<b>0.5</b>	<b>0.3</b>	<b>0.3</b>	<b>0.5</b>	<b>0.3</b>	<b>0.5</b>	<b>0.3</b>	<b>0.3</b>
<b>working plane</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>
<b>Room dimensions</b>	<b>Viewed crosswise</b>					<b>Viewed endwise</b>				
<b>x = 2H y = 2H</b>	<b>9.5</b>	<b>10.5</b>	<b>9.7</b>	<b>10.6</b>	<b>10.8</b>	<b>11.5</b>	<b>12.5</b>	<b>11.7</b>	<b>12.6</b>	<b>12.8</b>
<b>3H</b>	<b>9.4</b>	<b>10.3</b>	<b>9.6</b>	<b>10.5</b>	<b>10.7</b>	<b>11.4</b>	<b>12.3</b>	<b>11.6</b>	<b>12.5</b>	<b>12.7</b>
<b>4H</b>	<b>9.3</b>	<b>10.2</b>	<b>9.6</b>	<b>10.4</b>	<b>10.6</b>	<b>11.3</b>	<b>12.2</b>	<b>11.6</b>	<b>12.4</b>	<b>12.6</b>
<b>6H</b>	<b>9.2</b>	<b>10.0</b>	<b>9.5</b>	<b>10.3</b>	<b>10.5</b>	<b>11.2</b>	<b>12.0</b>	<b>11.5</b>	<b>12.3</b>	<b>12.5</b>
<b>8H</b>	<b>9.2</b>	<b>10.0</b>	<b>9.5</b>	<b>10.2</b>	<b>10.5</b>	<b>11.2</b>	<b>12.0</b>	<b>11.5</b>	<b>12.2</b>	<b>12.5</b>
<b>12H</b>	<b>9.2</b>	<b>9.9</b>	<b>9.5</b>	<b>10.2</b>	<b>10.5</b>	<b>11.1</b>	<b>11.9</b>	<b>11.5</b>	<b>12.2</b>	<b>12.4</b>
<b>4H 2H</b>	<b>9.4</b>	<b>10.2</b>	<b>9.7</b>	<b>10.4</b>	<b>10.7</b>	<b>11.3</b>	<b>12.1</b>	<b>11.6</b>	<b>12.3</b>	<b>12.6</b>
<b>3H</b>	<b>9.3</b>	<b>10.0</b>	<b>9.6</b>	<b>10.3</b>	<b>10.5</b>	<b>11.2</b>	<b>11.9</b>	<b>11.5</b>	<b>12.2</b>	<b>12.5</b>
<b>4H</b>	<b>9.2</b>	<b>9.9</b>	<b>9.5</b>	<b>10.2</b>	<b>10.5</b>	<b>11.1</b>	<b>11.8</b>	<b>11.5</b>	<b>12.1</b>	<b>12.4</b>
<b>6H</b>	<b>9.2</b>	<b>9.7</b>	<b>9.5</b>	<b>10.1</b>	<b>10.4</b>	<b>11.0</b>	<b>11.6</b>	<b>11.4</b>	<b>11.9</b>	<b>12.3</b>
<b>8H</b>	<b>9.1</b>	<b>9.7</b>	<b>9.5</b>	<b>10.0</b>	<b>10.4</b>	<b>11.0</b>	<b>11.5</b>	<b>11.4</b>	<b>11.9</b>	<b>12.3</b>
<b>12H</b>	<b>9.1</b>	<b>9.6</b>	<b>9.5</b>	<b>10.0</b>	<b>10.4</b>	<b>10.9</b>	<b>11.4</b>	<b>11.4</b>	<b>11.8</b>	<b>12.2</b>
<b>8H 4H</b>	<b>9.1</b>	<b>9.6</b>	<b>9.5</b>	<b>10.0</b>	<b>10.3</b>	<b>11.0</b>	<b>11.5</b>	<b>11.4</b>	<b>11.9</b>	<b>12.2</b>
<b>6H</b>	<b>9.0</b>	<b>9.5</b>	<b>9.5</b>	<b>9.9</b>	<b>10.3</b>	<b>10.9</b>	<b>11.3</b>	<b>11.3</b>	<b>11.7</b>	<b>12.2</b>
<b>8H</b>	<b>9.0</b>	<b>9.4</b>	<b>9.5</b>	<b>9.8</b>	<b>10.3</b>	<b>10.9</b>	<b>11.3</b>	<b>11.3</b>	<b>11.7</b>	<b>12.1</b>
<b>12H</b>	<b>9.0</b>	<b>9.4</b>	<b>9.5</b>	<b>9.8</b>	<b>10.3</b>	<b>10.8</b>	<b>11.2</b>	<b>11.3</b>	<b>11.6</b>	<b>12.1</b>
<b>12H 4H</b>	<b>9.0</b>	<b>9.5</b>	<b>9.4</b>	<b>9.9</b>	<b>10.3</b>	<b>10.9</b>	<b>11.4</b>	<b>11.3</b>	<b>11.8</b>	<b>12.2</b>
<b>6H</b>	<b>9.0</b>	<b>9.4</b>	<b>9.5</b>	<b>9.8</b>	<b>10.3</b>	<b>10.9</b>	<b>11.2</b>	<b>11.3</b>	<b>11.7</b>	<b>12.1</b>
<b>8H</b>	<b>9.0</b>	<b>9.3</b>	<b>9.5</b>	<b>9.8</b>	<b>10.2</b>	<b>10.8</b>	<b>11.2</b>	<b>11.3</b>	<b>11.6</b>	<b>12.1</b>
<b>Variations with the observer position at spacings:</b>										
<b>S = 1.0H</b>	<b>+ 2.2 / - 7.0</b>					<b>+ 2.3 / - 6.4</b>				
<b>1.5H</b>	<b>+ 2.5 / - 5.1</b>					<b>+ 2.6 / - 4.2</b>				
<b>2.0H</b>	<b>+ 4.8 / - 6.1</b>					<b>+ 5.1 / - 8.4</b>				

CIE Pub.117, 576.0 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.9)  
 Area: 0.1 m2

H(β) Range:-90 - 90DEG  
 H(β) Interval: 1.0DEG  
 Test Speed: HIGH  
 Temperature:24.8DEG  
 Operators:CB  
 Test Date:2020-09-23

V(B) Range:-90 - 90DEG  
 V(B) Interval: 2.0DEG  
 Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.00.417  
 Humidity:58%  
 Test Distance:13.200m [K=1.0000]  
 Remarks: LUMINARIA LED

## UTILIZATION FACTORS TABLE

Test:U:120.08V I:0.0942A P:6.9027W PF:0.6103 Freq:60.00Hz Lamp Flux:575.952x1 lm		
NAME: LUMINARIA LED 7W	TYPE:INTERIOR	WEIGHT:
SPEC.: BOL1019 7W 3000K WH18253	DIM.:	SERIAL No.:
MFR.: DRITE	SUR.:	Shielding Angle:

REFLECTANCE										
<b>Ceiling</b>	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
<b>Walls</b>	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
<b>Working plane</b>	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
<b>ROOM INDEX</b>	<b>UTILIZATION FACTORS (PERCENT) <math>k(RI) \times RCR = 5</math></b>									
<b>k = 0.60</b>	82	75	71	82	75	71	81	74	70	66
<b>0.80</b>	90	84	79	90	83	79	88	83	79	75
<b>1.00</b>	96	90	85	95	89	85	93	89	85	80
<b>1.25</b>	101	95	91	100	94	90	97	93	90	85
<b>1.50</b>	104	98	95	102	98	94	100	96	93	88
<b>2.00</b>	107	102	99	106	101	98	103	99	97	91
<b>2.50</b>	109	105	101	107	103	100	104	101	99	92
<b>3.00</b>	111	107	104	109	106	103	105	103	101	94
<b>4.00</b>	113	110	107	111	108	106	107	105	103	96
<b>5.00</b>	114	112	109	112	110	108	108	106	105	97
<b>ROOM INDEX</b>	<b>UF(total)</b>									<b>Direct</b>
<b>According to DIN EN 13032-2 2004</b>			<b>Suspended</b>				<b>SHRNOM = 1.25</b>			

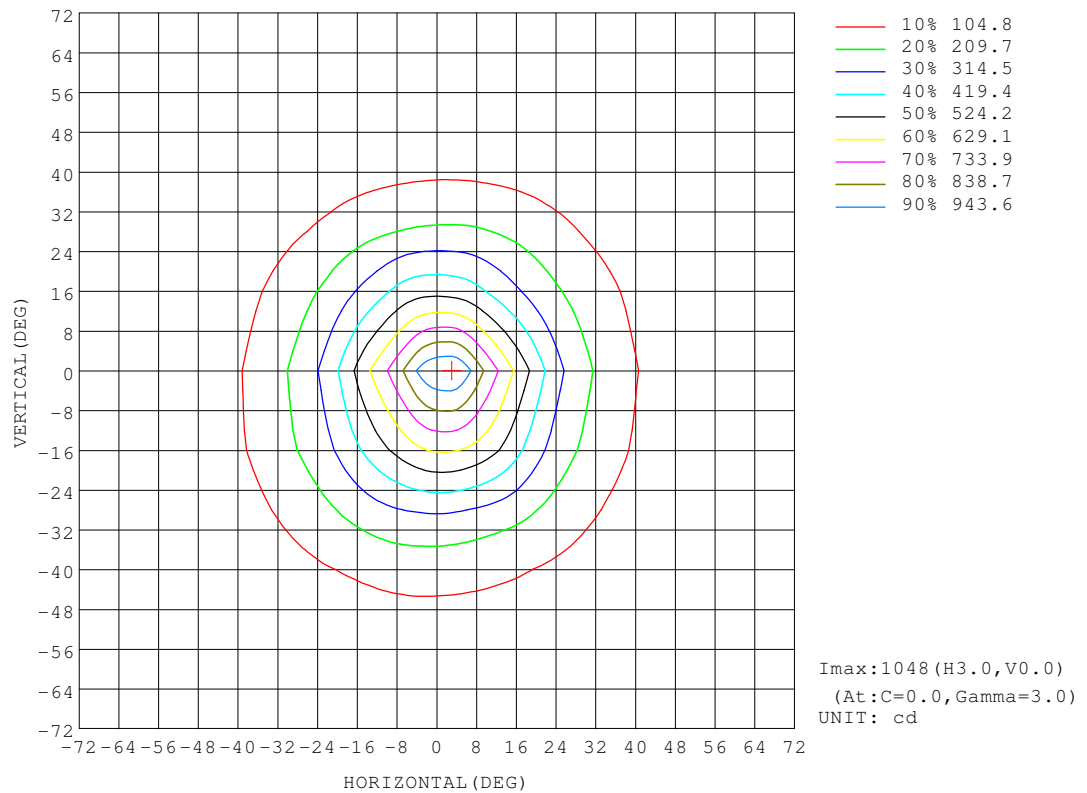
**H( $\beta$ ) Range:-90 - 90DEG**  
**H( $\beta$ ) Interval: 1.0DEG**  
**Test Speed: HIGH**  
**Temperature:24.8DEG**  
**Operators:CB**  
**Test Date:2020-09-23**

**V(B) Range:-90 - 90DEG**  
**V(B) Interval: 2.0DEG**  
**Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.00.417**  
**Humidity:58%**  
**Test Distance:13.200m [K=1.0000]**  
**Remarks: LUMINARIA LED**

**7 W (85-277) V (50-60) Hz**  
**QTEST 18253-16**

ISOCANDELA DIAGRAM

Test:U:120.08V I:0.0942A P:6.9027W PF:0.6103 Freq:60.00Hz Lamp Flux:575.952x1 lm		
NAME: LUMINARIA LED 7W	TYPE: INTERIOR	WEIGHT:
SPEC.: BOL1019 7W 3000K WH 18253	DIM.:	SERIAL No.:
MFR.: DRITE	SUR.:	Shielding Angle:



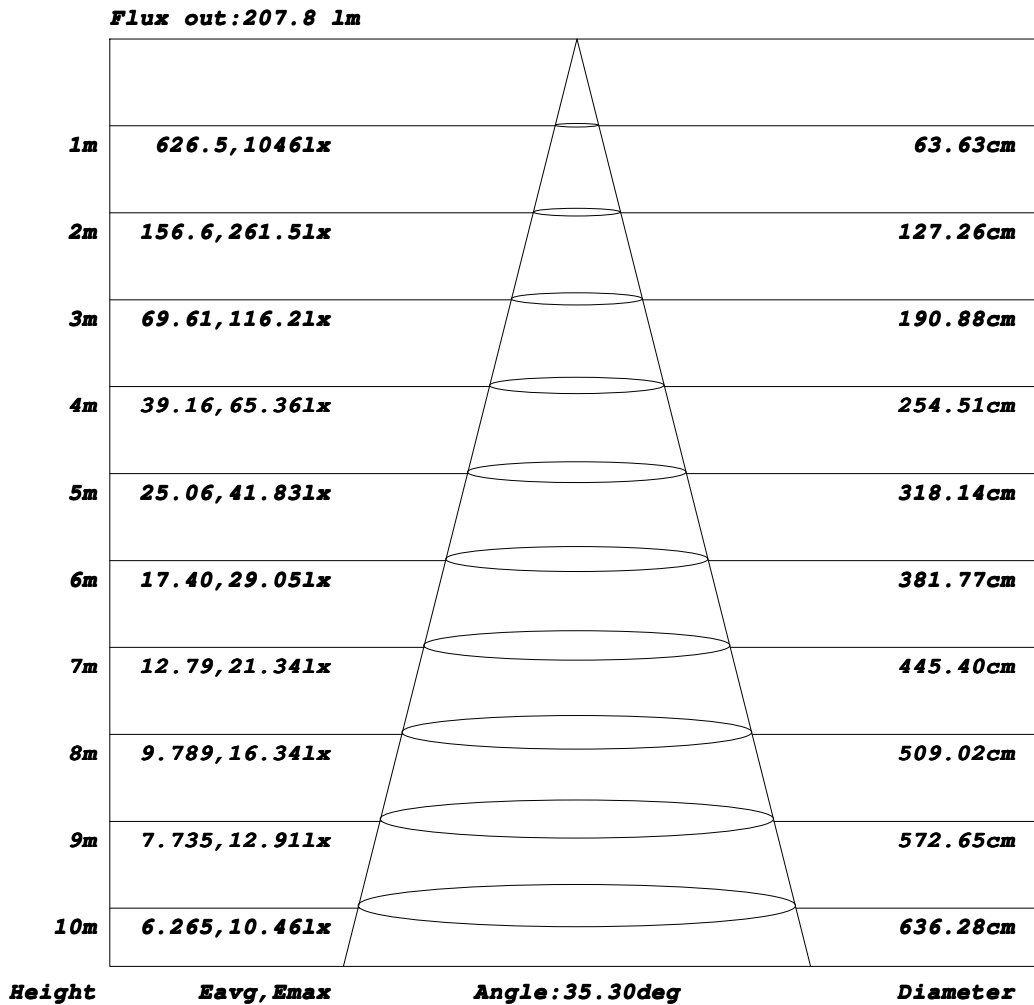
H(β) Range: -90 - 90DEG  
 H(β) Interval: 1.0DEG  
 Test Speed: HIGH  
 Temperature: 24.8DEG  
 Operators: CB  
 Test Date: 2020-09-23

V(B) Range: -90 - 90DEG  
 V(B) Interval: 2.0DEG  
 Test System: EVERFINE GO-2000H\_V1 SYSTEM V2.00.417  
 Humidity: 58%  
 Test Distance: 13.200m [K=1.0000]  
 Remarks: LUMINARIA LED

7 W (85-277) V (50-60) Hz  
 QTEST 18253-16

AAI Figure

Test:U:120.08V I:0.0942A P:6.9027W PF:0.6103 Freq:60.00Hz Lamp Flux:575.952x1 lm		
NAME: LUMINARIA LED 7W	TYPE:INTERIOR	WEIGHT:
SPEC.: BOL1019 7W 3000K WH 18253	DIM.:	SERIAL No.:
MFR.: DRITE	SUR.:	Shielding Angle:



Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

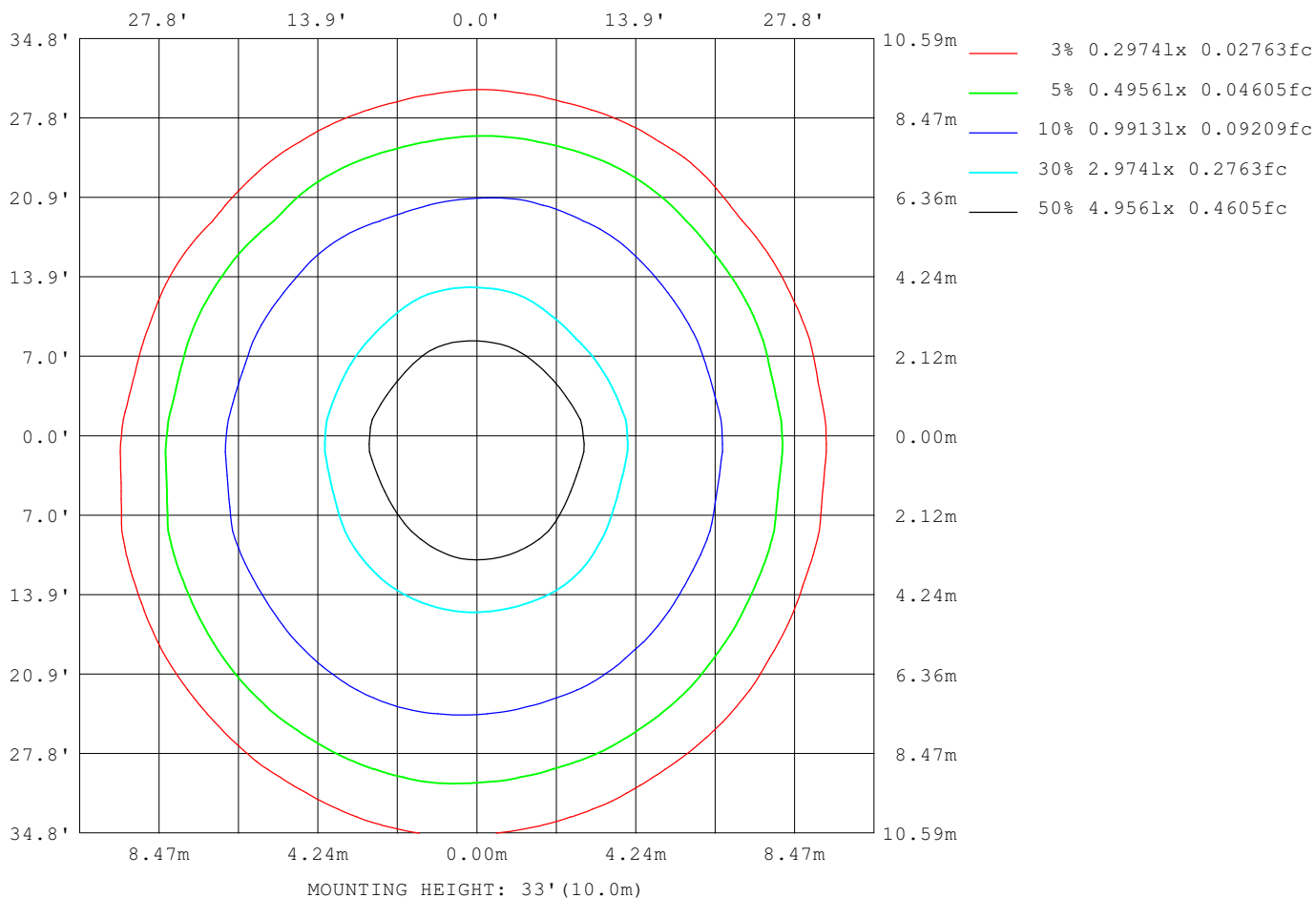
H(β) Range:-90 - 90DEG  
 H(β) Interval: 1.0DEG  
 Test Speed: HIGH  
 Temperature:24.8DEG  
 Operators:CB  
 Test Date:2020-09-23

V(B) Range:-90 - 90DEG  
 V(B) Interval: 2.0DEG  
 Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.00.417  
 Humidity:58%  
 Test Distance:13.200m [K=1.0000]  
 Remarks: LUMINARIA LED

7 W (85-277) V (50-60) Hz  
 QTEST 18253-16

ISOLUX DIAGRAM

Test:U:120.08V I:0.0942A P:6.9027W PF:0.6103 Freq:60.00Hz Lamp Flux:575.952x1 lm		
NAME: LUMINARIA LED 7W	TYPE:INTERIOR	WEIGHT:
SPEC.:BOLL1019 7W 3000K WH 18253	DIM.:	SERIAL No.:
MFR.: DRITE	SUR.:	Shielding Angle:



H(β) Range:-90 - 90DEG  
 H(β) Interval: 1.0DEG  
 Test Speed: HIGH  
 Temperature:24.8DEG  
 Operators:CB  
 Test Date:2020-09-23

V(B) Range:-90 - 90DEG  
 V(B) Interval: 2.0DEG  
 Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.00.417  
 Humidity:58%  
 Test Distance:13.200m [K=1.0000]  
 Remarks: LUMINARIA LED

7 W (85-277) V (50-60) Hz  
 QTEST 18253-16

LED Avg.L Report

Test:U:120.08V I:0.0942A P:6.9027W PF:0.6103 Freq:60.00Hz Lamp Flux:575.952x1 lm		
NAME: LUMINARIA LED 7W	TYPE:INTERIOR	WEIGHT:
SPEC.:BOL1019 7W 3000K WH 18253	DIM.:	SERIAL No.:
MFR.: DRITE	SUR.:	Shielding Angle:

AvgL	cd/m2
L_0~180 (65) av	92
L_0~180 (75) av	67
L_0~180 (85) av	78
L_90~270 (65) av	178
L_90~270 (75) av	72
L_90~270 (85) av	71
L_45 (65) av	102
L_45 (75) av	73
L_45 (85) av	82

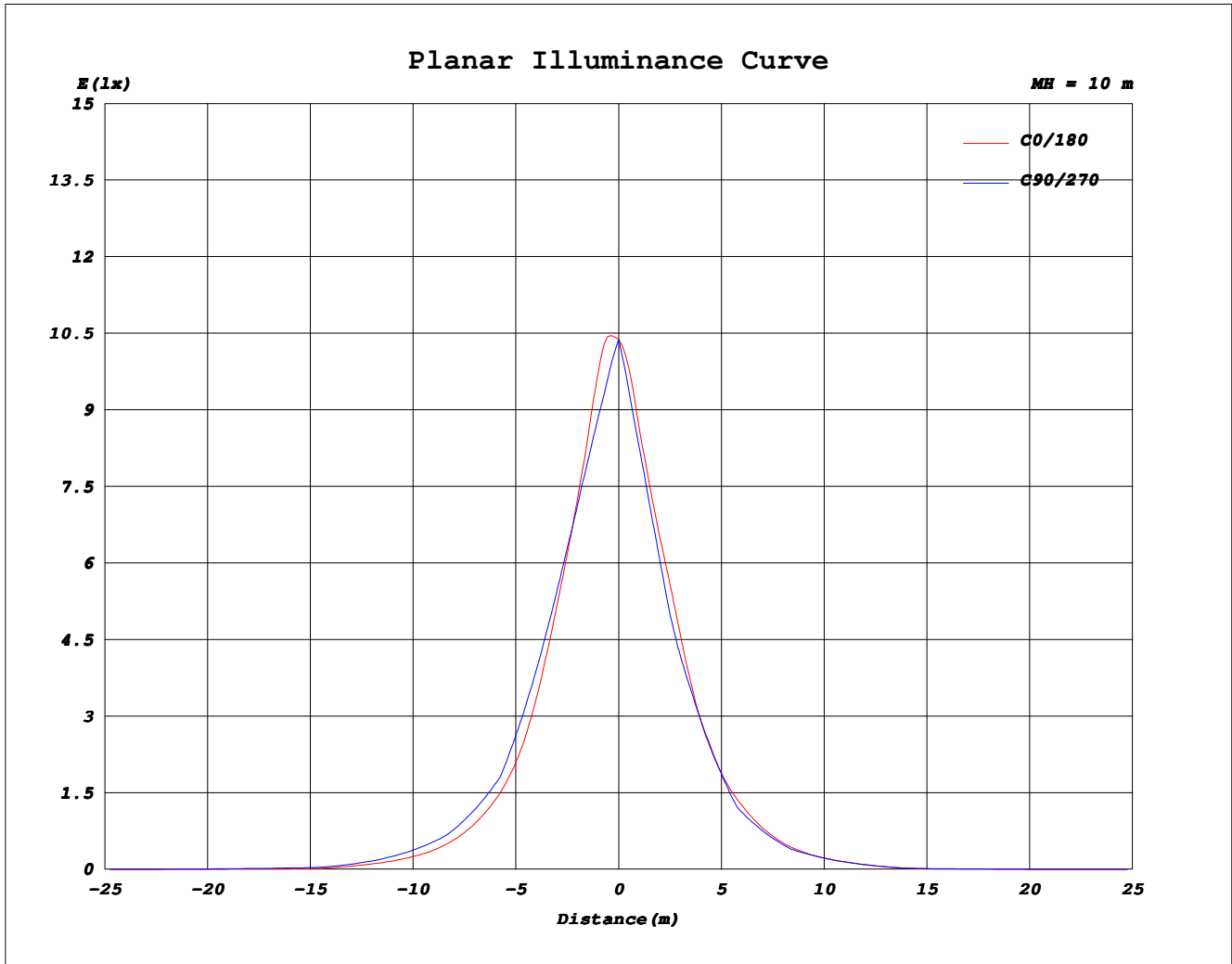
Standard: GB/T 29293-2012

H(β) Range:-90 - 90DEG  
 H(β) Interval: 1.0DEG  
 Test Speed: HIGH  
 Temperature:24.8DEG  
 Operators:CB  
 Test Date:2020-09-23

V(B) Range:-90 - 90DEG  
 V(B) Interval: 2.0DEG  
 Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.00.417  
 Humidity:58%  
 Test Distance:13.200m [K=1.0000]  
 Remarks: LUMINARIA LED

7 W (85-277) V (50-60) Hz  
 QTEST 18253-16

Planar Illuminance Curve



H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:24.8DEG  
Operators:CB  
Test Date:2020-09-23

V(B) Range:-90 - 90DEG  
V(B) Interval: 2.0DEG  
Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.00.417  
Humidity:58%  
Test Distance:13.200m [K=1.0000]  
Remarks: LUMINARIA LED

7 W (85-277) V (50-60) Hz  
QTEST 18253-16

7W (85277) V (50-60) Hz  
BOMBILLA LED MARCA CIGLA REF. BOL1919

Test Distance: 13.200 metres  
Test Temperature: 24.8 degrees Celsius

Significance: PHOTOMETRIC TEST  
MULTILUCES  
CARRERA 46 No 14-213 MEDELLÍN - COLOMBIA  
SAMPLES RECEIVED IN 2020-08-21

Special Notes: TEST EQUIPMENT  
  
GONIOPHOTOMETER SYSTEM: 109A  
POWER SUPPLY: 107A - 112A  
POWER ANALYZER: 110A - 147M  
SPECTROPHOTOCOLORIMETER: 106A  
THERMOHYGROMETER 146M

Environmental Conditions: 25 ± 1 ° C temperature and 50 ± 20% RH  
The results reported here relate only to the elements tested.  
This test report should not be partially reproduced,  
Without the approval of the QTEST Laboratory.

Realizó / Revisó: Realizó  
JORGE VALENCIA

Revisó  
CLAUDIA BETANCUR

Testing Procedure: IESNA LM 79 2019

*H(β) Range:-90 - 90DEG  
H(β) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:24.8DEG  
Operators:CB  
Test Date:2020-09-23*

*V(B) Range:-90 - 90DEG  
V(B) Interval: 2.0DEG  
Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.00.417  
Humidity:58%  
Test Distance:13.200m [K=1.0000]  
Remarks: LUMINARIA LED*

7 W (85-277) V (50-60) Hz  
QTEST 18253-16



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.08V I:0.0942A P:6.9027W PF:0.6103 Freq:60.00Hz Lamp Flux:575.952x1 lm		
NAME: LUMINARIA LED 7W	TYPE:INTERIOR	WEIGHT:
SPEC.:BOL1019 7W 3000K WH 18253	DIM.:	SERIAL No.:
MFR.: DRITE	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C (DEG) \ γ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	1038	1038	1038	1038	1038	1038	1038	1038	1038	1038	1038	1038	1038	1038	1038	1038	1038	1038	1038
5	913	911	908	905	902	897	893	891	893	896	901	908	916	915	912	909	908	908	904
10	790	787	782	773	762	748	732	725	726	729	729	717	706	713	729	741	735	732	729
15	662	658	652	647	635	618	601	592	593	591	573	565	577	573	558	582	590	580	581
20	532	525	520	515	512	502	488	478	479	463	442	449	428	424	426	411	436	415	427
25	406	402	398	395	393	392	377	364	367	347	339	327	313	306	301	294	305	292	297
30	281	284	290	290	290	291	284	268	270	251	253	238	242	227	218	222	217	211	209
35	215	217	219	217	212	209	208	196	196	183	187	178	175	174	167	157	151	148	144
40	152	153	154	155	153	148	149	142	140	132	132	127	120	115	109	103	98.9	97.7	92.8
45	109	109	107	105	104	99.7	97.3	96.9	92.4	89.1	89.6	84.8	80.0	77.2	75.9	72.0	66.4	63.3	61.5
50	67.1	67.5	66.4	64.2	63.5	64.4	60.6	60.3	53.7	54.5	53.0	51.9	48.6	46.6	44.1	39.6	41.2	36.6	37.6
55	28.0	27.8	26.7	26.3	26.7	29.9	32.4	32.3	31.8	27.2	18.4	20.0	18.3	18.1	14.5	15.7	12.0	10.3	11.3
60	16.8	15.7	13.6	10.7	7.78	6.70	8.84	11.8	14.0	10.1	7.14	6.30	6.25	6.24	5.88	5.94	5.80	5.75	5.70
65	9.73	9.11	7.83	6.17	5.07	4.76	4.57	4.64	4.33	4.46	4.13	4.17	4.14	3.76	3.80	3.61	3.73	3.48	3.68
70	2.60	2.78	2.93	2.88	2.74	2.80	2.90	2.98	2.96	2.72	2.55	2.46	2.42	2.35	2.25	2.32	2.34	2.20	2.37
75	1.73	1.74	1.75	1.76	1.75	1.71	1.67	1.67	1.75	1.85	1.83	1.75	1.65	1.66	1.61	1.64	1.68	1.66	1.73
80	1.14	1.14	1.15	1.17	1.19	1.22	1.26	1.29	1.34	1.36	1.36	1.37	1.31	1.31	1.31	1.29	1.34	1.28	1.39
85	0.57	0.57	0.58	0.58	0.59	0.61	0.62	0.65	0.67	0.70	0.72	0.73	0.77	0.77	0.75	0.72	0.67	0.58	0.69
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

H(β) Range:-90 - 90DEG  
 H(β) Interval: 1.0DEG  
 Test Speed: HIGH  
 Temperature:24.8DEG  
 Operators:CB  
 Test Date:2020-09-23

V(B) Range:-90 - 90DEG  
 V(B) Interval: 2.0DEG  
 Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.00.417  
 Humidity:58%  
 Test Distance:13.200m [K=1.0000]  
 Remarks: LUMINARIA LED

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.08V I:0.0942A P:6.9027W PF:0.6103 Freq:60.00Hz Lamp Flux:575.952x1 lm		
NAME: LUMINARIA LED 7W	TYPE:INTERIOR	WEIGHT:
SPEC.: BOL1019 7W 3000K WH 18253	DIM.:	SERIAL No.:
MFR.: DRITE	SUR.:	Shielding Angle:

Table--3

UNIT: cd

C (DEG) \ γ (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	1038	1038	1038	1038	1038	1038	1038	1038	1038	1038	1038	1038	1038	1038	1038	1038	1038	1038	1038
5	902	901	901	897	886	877	868	862	857	856	857	859	860	861	862	863	865	866	869
10	728	711	688	676	681	687	682	674	668	668	676	683	687	689	690	690	690	690	692
15	566	534	538	534	514	513	522	517	510	513	522	528	528	527	523	521	520	518	517
20	395	400	389	383	392	375	382	386	378	384	397	405	406	405	405	404	405	404	403
25	278	278	273	272	275	276	275	285	279	284	293	292	293	294	296	296	296	296	298
30	207	195	197	201	192	199	192	203	196	201	201	196	193	191	188	187	187	191	196
35	142	143	142	136	136	140	132	136	131	134	132	133	134	135	136	137	138	140	141
40	90.0	89.1	89.3	90.5	92.1	91.6	86.1	87.0	87.5	91.5	89.4	90.7	90.3	88.6	87.9	87.8	88.9	89.9	90.9
45	61.4	59.7	57.7	57.1	58.2	57.4	55.5	56.1	56.9	55.8	56.3	58.6	58.9	59.5	60.9	61.9	62.8	62.9	62.9
50	32.5	33.3	32.8	32.0	32.4	32.1	32.2	31.1	34.9	35.0	37.2	36.5	35.9	36.2	36.4	36.4	36.7	36.7	36.8
55	12.4	11.4	13.1	10.7	12.7	10.4	14.3	18.6	19.8	19.9	18.8	16.7	14.7	13.3	13.0	12.9	12.9	12.9	12.8
60	5.75	5.53	5.82	5.60	5.82	5.82	6.26	8.78	8.53	7.30	6.16	6.38	6.56	6.92	7.37	7.73	7.90	7.78	7.36
65	3.53	3.63	3.58	3.85	3.96	3.91	3.87	3.92	4.29	4.45	4.53	4.55	4.58	4.73	5.00	5.20	5.27	5.21	5.00
70	2.37	2.34	2.46	2.49	2.56	2.63	2.70	2.87	2.94	3.01	2.89	2.78	2.74	2.71	2.69	2.66	2.65	2.67	2.71
75	1.74	1.74	1.81	1.84	1.91	2.00	2.00	1.96	1.92	1.93	1.95	1.97	2.00	2.00	1.99	1.99	1.99	1.99	1.99
80	1.37	1.41	1.41	1.43	1.50	1.49	1.52	1.50	1.47	1.44	1.40	1.38	1.36	1.34	1.33	1.33	1.33	1.33	1.33
85	0.71	0.74	0.76	0.80	0.78	0.78	0.78	0.75	0.73	0.72	0.70	0.69	0.68	0.67	0.67	0.67	0.66	0.66	0.67
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

H(β) Range:-90 - 90DEG  
 H(β) Interval: 1.0DEG  
 Test Speed: HIGH  
 Temperature:24.8DEG  
 Operators:CB  
 Test Date:2020-09-23

V(B) Range:-90 - 90DEG  
 V(B) Interval: 2.0DEG  
 Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.00.417  
 Humidity:58%  
 Test Distance:13.200m [K=1.0000]  
 Remarks: LUMINARIA LED

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.08V I:0.0942A P:6.9027W PF:0.6103 Freq:60.00Hz Lamp Flux:575.952x1 lm		
NAME: LUMINARIA LED 7W	TYPE:INTERIOR	WEIGHT:
SPEC.: BOL1019 7W 3000K WH 18253	DIM.:	SERIAL No.:
MFR.: DRITE	SUR.:	Shielding Angle:

Table--4

UNIT: cd

C (DEG) \ γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	1038	1038	1038	1038	1038	1038	1038	1038	1038	1038	1038	1038	1038	1038	1038				
5	873	878	884	891	899	906	911	915	919	921	924	935	952	970	990				
10	695	698	702	707	712	711	704	697	697	715	734	740	739	749	782				
15	517	514	515	520	525	524	515	514	531	541	535	551	582	579	600				
20	403	397	388	382	381	379	369	377	391	381	398	403	408	433	429				
25	300	298	291	283	284	284	271	274	271	274	278	281	284	297	295				
30	201	206	207	205	205	207	197	202	195	203	197	203	207	203	213				
35	141	143	144	143	140	145	140	145	139	144	147	144	141	146	153				
40	92.0	93.4	96.0	99.1	96.7	98.2	94.6	96.3	93.3	95.5	99.2	103	101	101	104				
45	62.5	61.7	60.5	60.5	60.8	60.2	60.5	60.1	57.4	59.0	60.6	62.0	62.7	60.9	64.4				
50	37.3	38.3	38.8	38.4	38.8	35.2	34.3	32.3	31.5	33.4	33.6	32.2	35.7	37.9	34.2				
55	13.1	15.3	17.9	19.9	20.6	21.2	18.9	14.1	11.9	14.6	12.1	12.3	14.6	10.5	11.8				
60	6.89	6.59	6.50	6.49	7.50	9.18	8.97	7.81	6.40	6.32	6.53	6.22	6.43	6.25	6.22				
65	4.82	4.70	4.66	4.63	4.72	4.55	4.37	4.09	4.21	4.33	4.06	4.25	4.09	4.17	3.94				
70	2.74	2.79	2.87	2.95	3.07	3.14	3.05	2.97	2.76	2.59	2.66	2.67	2.60	2.46	2.45				
75	2.00	2.00	1.98	1.97	1.96	1.94	2.00	2.08	2.07	1.91	1.88	1.96	1.90	1.85	1.79				
80	1.35	1.36	1.38	1.41	1.44	1.47	1.51	1.49	1.48	1.48	1.44	1.41	1.50	1.47	1.39				
85	0.67	0.68	0.69	0.71	0.72	0.74	0.75	0.75	0.76	0.77	0.73	0.73	0.71	0.70	0.70				
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				

H(β) Range:-90 - 90DEG  
 H(β) Interval: 1.0DEG  
 Test Speed: HIGH  
 Temperature:24.8DEG  
 Operators:CB  
 Test Date:2020-09-23

V(B) Range:-90 - 90DEG  
 V(B) Interval: 2.0DEG  
 Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.00.417  
 Humidity:58%  
 Test Distance:13.200m [K=1.0000]  
 Remarks: LUMINARIA LED